



TridAnt® Enhanced Antimicrobial Surface-Active Therapeutic

TridAnt® Enhanced Antimicrobial Surface-Active Therapeutic is a zero-leaching, permanently effective coating that reduces blood stream infections, prevents biofilm and colonisation, and minimises the need for antibiotics.

Clinical Features



Contact Kil Mechanism



Full Spectrum
Efficacy



Prevents Biofilm Formation



Zero Leaching



Permanently Effective



No Particulates

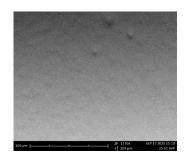
"For many clinicians and patients, the benefits of surface-active medical coatings remain largely unknown.

"By preventing infections, by way of an example, these coatings address one of the most serious risks associated with dialysis catheter use: bloodstream infections.

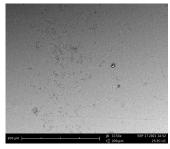
Providing long-lasting, site-specific antimicrobial protection—without the need for systemic drugs—has the potential to transform how vascular access is managed in dialysis. This technology offers safer and more sustainable options for patients using central venous catheters (CVCs)."

Nicholas Inston, President-Elect of the Vascular Access Society and Consultant Surgeon in Vascular Access & Transplantation at Queen Elizabeth Hospital Birmingham

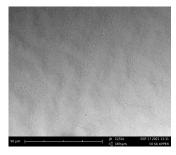
Biofilm of S.aureus and E.coli



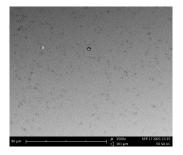
Coated (E.coli) biofilm



Uncoated (E.coli) biofilm



Coated (S.Aureus) biofilm



Uncoated (S.Aureus) biofilm







TridAnt Antimicrobial SAT

Bacterial Test Strain	Contact time (seconds)	Log reduction (dirty conditions)
E. hirae	30	4 > log
E. coli	30	4 > log
P. aeruginosa	30	4 > log
S. aureus	30	4 > log
Drug Resistant Bacterial Test Strain	Contact time (seconds)	Log reduction (dirty conditions)
Acinetobacter baumanni (multi-drug-resistant)	30	4 > log
Enterococcus faecalis (vancomycin-resistant)4	30	> log
Escherichia coli (carbapenem-resistant)	30	4 > log
Klebsiella pneumoniae (ESBL)	30	4 > log
Yeast test strain	Contact time (seconds)	Log reduction (dirty conditions)
Candida albicans	30	4 > log

What is TridAnt®?

TridAnt® Enhanced Antimicrobial is a Surface-Active Therapeutic that represents a breakthrough in biocompatible antimicrobial technology. It is the only zero-leaching, permanently effective coating for medical devices that delivers fast-acting, full-spectrum efficacy against gram-negative (e.g. E. coli) and grampositive bacteria (including drug resistant bacteria, e.g. MRSA), yeast and fungi.

TridAnt® combines active and passive components to inhibit protein deposition and bacterial adhesion while killing pathogens, providing complete protection for medical device surfaces. Its unique Contact Kill Mechanism, which works within seconds, and its permanent efficacy, enables all coated surfaces to function as disinfection for as long as they remain in the body.

TridAnt® offers numerous benefits, both to patients and their doctors. From the patient's perspective it enhances

safety and quality of life. Infection-related complications are reduced, and surgical removals/ replacements minimised. Because the devices are safeguarded against infection, implants can remain in place safely, indefinitely.

From the clinician's point of view, this coating delivers sustained antimicrobial protection for decades. The combination of active and passive components inhibits protein deposition and bacterial adhesion on surfaces, and prevents microbial colonisation and biofilm formation, while killing pathogens.

Even in a high-risk environment, or where the patient has an active infection, the coating functions as disinfection for as long as the device remains in the body.

The reduced need for surgical removal or replacement reduces the overall clinical and economic burden of infection management.





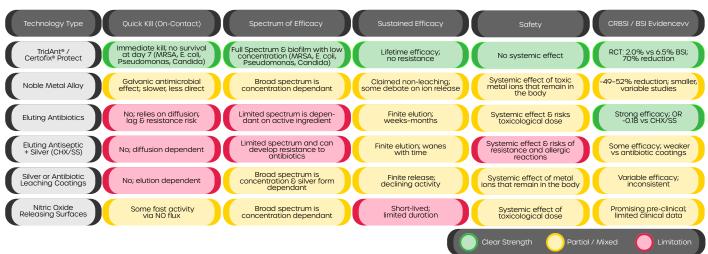


Biocompatibility Evaluation

TridAnt® Enhanced Antimicrobial Surface-Active Therapeutic is derived from our proven technology platform, used for over 25 years on FDA-and CE-approved medical devices without rejection or recall. It has been tested to ISO biocompatibility standards, including:



Antimicrobial Coating Technologies: Comparison



Clinical Applications

TridAnt® can be safely applied to a wide range of medical device substrates, including polymers (e.g. polycarbonate and polyurethane), metals (e.g. nitinol and stainless steel), and woven or non-woven fabrics. It is compatible with diverse geometries and sizes from small implants with an inner diameter of less than 5 microns to large systems with a length of over 20 meters.

Clinical Areas Orthopaedic Respiratory Urology Wound Care Cardiovascular Gastrointestinal





Various Substrates We Coat

Hardest **PTFE** or Teflon ePTFE (expanded polytetrafluoroethylene). Used for stent coverings, vascular grafts, Pebax® (thermoplastic (Polytetrafluoroethylen Polytetrafluoroethylene). elastomer (TPE). Elastomer Polymer used for sheaths. heart valves, surgical meshes **UHMWPE** (Ultra High Molecular Weight Polyethylene). Polymer. **PEEK** (Polyether Ether Ketone). Polymer Titanium. Polished Metal Stainless Steel (chromium, Nitinol (nickel-titanium). Polished Metal alloy Polished Metal alloy Silicone rubber. Elastomer **Nylon** (Polyamide). Polymer Wood (biopolymer) **Silicone** (polydimethylsiloxane). **TPU** (thermoplastic PE (Polyethylene). Polymer. (Polyvinyl chloride). polyurethane). Elastomer **PP** (Polypropylene). Polymer used for catheters, Polymer **Cellulose Fibres** thin films (biopolymer) PP (polypropylene), PET (polyester), and PE (polyethylene). Non-woven fabric (sutures, face masks, textiles) **Latex** (natural rubber). Elastomer PC (Polycarbonate). Polymer **PET** (polyethylene terephthalate). Polymer sheets Cotton (biopolymer) **PET** (polyethylene terephthalate). Fibres are spun and then woven Easiest poly(styrene-block-ethylene/butylene-blockstyrene). poly(styrene-block-ethylene/propylene-blockstyrene). (Polymethylpentene). Hollow polymer fibres Polyester fabric. Woven Polymer Polymer fabric

